

Trilogy Combined Science

AQA

Subject Leader: Mrs Elliott

What's it all about?

Science is the study of the world around us. Science has an impact on all of our lives each day and an understanding of science helps us to become informed citizens in a fast changing world.

Who should take it?

All students will work towards science qualifications in Years 9, 10 and 11.

What will I learn on this course?

You will learn the fundamental concepts of science, including some of the ideas laid down by Isaac Newton, Charles Darwin and Dmitri Mendeleev. However, the courses encourage students to become informed 21st century citizens also. Some of the topics you will study include:

- Forces
- Atomic Structure
- Ecology
- Particle model of matter
- Bonding, structure and properties of matter
- Bioenergetics

In addition, you will consider how science can be used to conduct a balanced argument on some more modern issues:

- Should we clone humans?
- Are hydrogen fuel cells the answer to our energy needs?

In addition to acquiring knowledge and understanding, you will learn a range of practical and investigative skills that are assessed in each of the 6 examinations.

How will I be assessed?

Combined science is assessed by six written examinations, each exam lasting 1 hour and 15 minutes. **All examinations are taken at the end of Year 11.** Two grades are awarded as described in the table.

	Weighting	The qualification will be graded on a 17-point scale: 1 – 1 to 9 – 9, where 9 – 9 is the best grade. This counts as two GCSE grades.
Biology Paper 1	16.7%	
Biology Paper 2	16.7%	
Chemistry Paper 1	16.7%	
Chemistry Paper 2	16.7%	
Physics Paper 1	16.7%	
Physics Paper 2	16.7%	

There is no coursework or controlled assessment for this course. The final grade is based solely on exam performance.

Each examination is available at two tiers. Teachers will use internal class assessments to decide which tier is most appropriate for each student.

Tier	Available Grades
Higher	4-9
Foundation	1-5

Students who complete the Combined Science course are eligible to study A-level sciences (Biology, Chemistry and Physics) at King Charles I School, as long as they achieve a grade from 9 to 6 in the Combined Science course.

What do your current students say?

“I enjoyed seeing how science is relevant to the real world. The things I learnt have helped me to understand the things I hear on the news and read in newspapers.”

“You have to be good at writing in science too. The extended writing questions are tough but I got really good marks because my teacher had explained to me how to do it.”

“We get to do lots of experiments and they help me understand the concept we have learnt”.

Is there anything else I need to know? (e.g. specialist clothing, equipment, materials etc.)

Students must bring a calculator to all science lessons. Safety equipment, such as safety glasses, will always be provided when necessary.

Who can I contact for further information?

mkelliott@kingcharles1.worcs.sch.uk